On page 20, line 28, please insert - (Sequence Listing ID No. 117) -- after "PPPGMIPP".

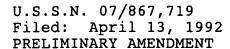
After page 29, please insert the enclosed gene sequence listing as new pages 30-96. Please renumber pages 30-37 as pages 97-104.

In the Claims

A linear epitope for a human autoantibody 1. (amended) selected from the group of peptides of less than forty amino acids, beginning with the amino acid numbered from the amino terminus followed by the listed amino acid sequence consisting of the La/SSB epitopes: 136, QVLNIQMRRTLHKAFKGS (Sequence Listing ID No. 19), 139, NIQMRRTLHKAFK (amino acids 4-16 of Sequence Listing ID No. 19), 144, RTLHKAFK (amino acids 9-16 of Sequence Listing ID No. 19), 17, ICHQIEYYFGDFNLPRDKFLK (Sequence Listing ID No. 20), 24, YFCDFNLP (amino acids 8-15 of Sequence <u>Listing ID No. 20)</u>, 46, WVPLE MIKFNR (Sequence Listing ID No. 21), 47, VPLEIMIK (amino acids 2-9 of Sequence Listing ID No. 21), 86, [KKTKIRRSPSKPL] KTKIRRSPSKPL (Sequence Listing ID No. 22), [89] 88, KIRRSPSK (amino acids 4-N of Sequence Listing ID No. 22), 56, NRLNRLTTDFNVIVE, (Sequence Listing ID No. 23), 56, NRLNRLTT (amino acids 1-8 of Sequence Listing ID No. 23), 257, GEIKWIDFVRGAK (Sequence Listing ID No. 24), 260, KWIDFVRGAK (amino acids 4-13 of Sequence Listing ID No. 24), 262, IDFVRGAK (amino acids 6-13 of Sequence Listing ID No. 24), 325,

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SLNKWKSKGRRFKGKGKGNK (Sequence Listing ID No. 25), 330, KSKGRRFK (amino acids 6-13 of Sequence Listing ID No. 25), 292, GNAQLRNKEVTW (Sequence Listing ID No. 26), 296, LRNKEVTW (amino acidà 5-12 of Sequence Listing ID No. 26), 154, IFVVFDSIE (Sequence Listing ID No. 27), 155, FVVFDSIE (amino acids 2-9 of Sequence Listing ID No. 27), 176, KETDLLILFKDDYFA (Sequence Listing ID No. 28), 182, ILFKDDYF (amino acids 7-14 of Sequence <u>Listing ID No. 28)</u>, 104, YKNDVKNRSVYIKGFPT (<u>Sequence Listing ID</u> No. 29), 112, SWYIKGFP (amino acids 9-16 of Sequence Listing ID No. 29), 63, TDFNV\VE (Sequence Listing ID No. 30), 64, DFNVIVEA (amino acids 2-9 of Sequence Listing ID No. 30), 270, EGIILFKEKAK (Sequence Listing ID No. 31), 270, EGIILFKE (amino acids 1-8 of Sequence Listing ID No. 31), 354, KVQFQGKKTKFASD, (Sequence Listing ID No. 32), 360, KKTKFASD (amino acids 7-14 of Sequence Listing ID No. 32), 246, REDLAILF (Sequence Listing ID No. 33), 232, CLLKFSGD (Sequence Listing \(\text{ID No. 34} \), 379, TGPVKRAR (Sequence Listing ID No. 35), 200, KVEAKLRAKQ (Sequence Listing ID No. 36), 202, EAKLRAKQ (amino acids 3-10 of Sequence Listing ID No. 36),;

the Ro/SSA epitopes: 30, MNRLHRFL (Sequence
Listing ID No. 37), 37, LCFGSEGGT (Sequence Listing ID No. 38),

38, CFGSEGGT (amino acids 2-9 of Sequence Listing ID No. 38),

[44] 41, SEGGTYYIKEQ (Sequence Listing ID No. 39), [45] 42,

EGGTYYIKEQ (amino acids 2-11 of Sequence Listing ID No. 39), [47]

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44, GTYYIKEQ (amino acids 4-11 of Sequence Listing ID No. 39), [47] 44, GTYYI (amino acids 4-8 of Sequence Listing ID No. 39), [74] \(\frac{76}{26}\), EIKSFSQEGRT (Sequence Listing ID No. 40), 78, KSFSQEGR (amino acids 3-10 of Sequence Listing ID No. 40), 81, SQEGRTTKO (Sequence Listing ID No. 41), 84, GRTTKQEPM (Sequence Listing ID No. 42), [105 \setminus 106, STKQAAFKAV (amino acids 2-11 of Sequence Listing ID No. 43), [106] 105, ISTKQAAFKAVS (Sequence Listing ID No. 43), [109] 108, KQAAFKAV (amino acids 4-11 of Sequence Listing ID No. 43), 11, AFKAVSEVC (Sequence Listing ID No. 44), 126, FTFIQFKKDLKESMK (Sequence Listing ID No. 45), 130, QFKKDLKE (amino acids 5-12 of Sequence Listing ID No. 45), 138, SMKCGMWGRA (Sequence Listing ID No. 46), 139, MKCGMWGRA (amino acids 2-10 of Sequence Listing ID No. 46), 142, GMWGRALRKAIA (Sequence Listing ID No. 47), 145, GRALRKAI (amino acids 4-11 of Sequence Listing ID No. 47), 165, [ALAVTKYKORNGWSHKDLLRLSH] ALAVTKYKORNGWSHKDLLRLSH (Sequence Listing ID No. 48), 169, [TKYKORNG] TKYKORNG (amino acids 5-12 of Sequence Listing ID No. 48), 173, [ORNGWSHK] ORNGWSHK (amino acids 9-16 of Sequence Listing ID No. 48), 182, LLRLSHLKPSS (Sequence Listing ID No. 49), 184, RLSHLKPS (amino acids 3-10 of Sequence Listing ID No. 49), [198] 199, TKYITKGW (amino acids 2-9 of Sequence Listing ID No. 71), [201] 202, ITKGWKEV (amino acids 5-12 of Sequence Listing ID No. 71), 210, HELYKEKA (Sequence Listing ID No. 50),

212, LYKEKALSV (Sequence Listing ID No. 51), [215] 216,

KALSVETEKLLKYL (Sequence Listing ID No. 52), [221] 222, TEKLLKYL hamino acids 7-14 of Sequence Listing ID No. 52), 224, KLLKYLEA (Sequence Listing ID No. 53), 229, LEAVEKVKRTKDE (Sequence <u>Listing ID No. 54)</u>, 234, KVKRTKDE (amino acids 6-13 of Sequence Listing ID No. 54), 257, HLLTNHLKSKEVWKALLQEMPL (Sequence Listing 263, LKSKEVWK (amino acids 7-14 of Sequence Listing 55) ID No. ID No. 55), 264, KSKEVWKA (amino acids 8-15 of Sequence Listing ID No. 55), 265 SKEVWK (amino acids 9-14 of Sequence Listing ID No. 55), 280 ALLRNAGKMTA (Sequence Listing ID No. 56), 283, RNLGKMT (amino acids \-10 of Sequence Listing ID No. 56), 285, LGKMTANS (Sequence Listing ID No. 57), 308, LCNEKLLKKARIHPFHI (Sequence Listing ID No. 58), 313, LLKKARI (amino acids 6-12 of Sequence Listing ID No. 58), 315, KKARIHPF (amino acids 8-15 of Sequence Listing ID No. 58), 330, TYKTGHGLRGKLKWRPDE (Sequence Listing ID No. 59), 331, YKTGHGL (amino acids 2-8 of Sequence Listing ID No. 59), 352, ALDAAFYK (Sequence Listing ID No. 60), 355, AAFYKTFKTVEPTGKRFLLA (Sequence Listing ID No. 61), [362] 379, [ASMNORVLGS] ASMNORVLGS (Sequence Listing ID No. 62), 365, EPTGKRFL (amino acids 11-18 of Sequence Listing ID No. 61), 398, AMCMVVTR (Sequence Listing ID No. 63), 414, AFSQEMVP (Sequence <u>Listing ID No. 64)</u>, 420, VPCPVTTD (<u>Sequence Listing ID No. 65)</u>, 433, VLMAMSQI (Sequence Listing ID No. 66), 445, TDCSLPMI (Sequence Listing ID No. 67), 449, LPMIWAQKTNTPA (amino acids 3-15 of Sequence Listing ID No. 68), [453] 472, TFAGGVHPAI

(Sequence Listing ID No. 69), 472, [TFAGGVHPAI, 472,] TFAGGVHP

(anino acids 1-8 of Sequence Listing ID No. 69), [482] 481,

IALREYRKKMDIPAKL (Sequence Listing ID No. 70), 484, REYRKKMD

(amino acids 4-11 of Sequence Listing ID No. 70),;

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the Sm B/B' epitopes: [20] 28, IGTFKAFD (Sequence Listing ID No. 103), [21] 29, GTFKAFDK (Sequence Listing ID No. 1), [22] 30, TFKAFDKH (amino acids 1-8 of Sequence Listing ID No. 15) 29, [GTFKAFDK] 30, TFKAFDKHM (Sequence Listing ID No. 15) 44, DCDEFRKI (Sequence Listing ID No. 104) 45, [CDEFAKIK] CDEFRKIK (amino acids 1-8 of Sequence Listing ID No. 2) 45, CDEFRKIKPKNAKQP (Sequence Listing ID No. 2), 46, [DEFRKJKP] DEFRKIKP (amino acids 2-9 of Sequence Listing ID No. 2), 47, EFRKIKPK (amino acids 3-10 of Sequence Listing ID No. 2), [76] 48, [FRKJKPKN] FRKIKPKN (amino acids 4-11 of Sequence Listing ID No. 2), [77] 49, RKIKPKNA (amino acids 5-12 of Sequence Listing ID No. 2), [78] 50, KIKPKNAK (amino acids 6-13 of Sequence Listing ID No. 2), [79] 51, IKPKNAKQ (amino acids 7-14 of Sequence Listing ID No. 2), [80] 52, [KPKNAKOP] KPKNAKOP (amino acids 8-15 of Sequence Listing ID No. 2), (81] 53, PKNAKQPE (Sequence Listing ID No. 105), 83, EGPPPKDT \Sequence Listing ID No. 16), 88, KDTGIARV (Sequence Listing ID No. 17), 94, RVPLAGAA (Sequence Listing ID No. 3), 101, AGGPGVGRAAGRGVPAG (Sequence Listing ID No. 4), 104, PGVGRAAG (amino acids 4-11 of Sequence Listing ID No. 4), 120, IPQAPAGLAG (Sequence Listing \1D No. 18),

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125, AGLAGPVRGVGGPSQ (Sequence Listing ID No. 5), 131, VRGVGGPS (amino acids 6-13 of Sequence Listing ID No. 5) 139, QOVMTPOG (Sequence Listing ID No. 107), 140, QVMTPQGR (amino acids 1-6 of Sequence Listing ID No. 6), 141, [VMTPOGRG] VMTPQGRG, amino acids 2-9 of (Sequence Listing ID No. 6), 144, [POGR] POGR (amino acids 5-8 of Sequence Listing ID No. 6), 142, [MTPQGBGT] MTPQGRGT (amino acids 3-1) of Sequence Listing ID No. 6), 143, TPQGRGTV, (amino acids 4-11 of Sequence Listing ID No. 6), 144, POGRGTVA (amino acids 5-12 of Sequence Listing ID No. 6) 145, QGRGTVAA (Sequence Listing ID No. 108) 164, APTQYPPG (Sequence Listing ID No. 109) 165, PTQYPPGR (amino acids 1-8 of Sequence Listing ID No. 7) 166, TOYPPGRG (amino acids 2-9 of Sequence Listing ID No. 7) 167, OYPPGRGT, amino acids 3\10 of (Sequence Listing ID No. 7) 168, YPPGRGTP (amino acids 4-11 of Sequence Listing ID No. 7) 169, PPGRGTPP (amino acids 5-12 of Sequence Listing ID No. 7) 170, PGRGTPPP (amino acids 6-13 of Sequence Listing ID No. 7) 171, GRGTPPPP (amino acids 7-14 of Seguence Listing ID No. 7) 172, RGTPPPPV (amino acids 8-15 of Sequence Listing ID No. 7) 173, GTPPPPVG (Sequence Listing ID No. 110) 174, TPPPPVGRATPPPGI (Sequence Listing ID No. 8), 175, PPPPVGRA (amino acids 2-9 of Sequence Listing ID No. 8), 184, PPPGIMAP (Sequence Listing ID No. 9), 188, IMAPPPGM (Sequence Listing ID No. 111) \(\) 189, MAPPPGMRPPM (Sequence Listing ID No. 10), 189, MAPPPGMR (amino acids 1-8 of Sequence Listing ID No. 10), 191, PPPGMR (amino

acids 3-8 of Sequence Listing ID No. 13), 190, APPPGMRP (amino acids 2-9 of Sequence Listing ID No. 10), 191, PPPGMRPP (amino acids 3-10 of Sequence Listing ID No. 10), 192, PPGMRPPM (amino acids 4-11 of Sequence Listing ID No. 10), 202, PIGLPPARGTPIGMPP (Sequence Listing ID No. 11), 206, PPARGTPI, (amino acids 5-11 of Sequence Listing ID No. 11), 212, PIGMPPPG (Sequence Listing ID No. 12), 213, IGMPPPGM (Sequence Listing ID No. 12), 214, [GMPPPGMB] GMPPPGMR (Sequence Listing ID No. 113), [216, PPPGMB,] 215, MPPPGMRP (Sequence Listing ID No. 118), 216, PPPGMRPP (amino acids 4-11 of Sequence Listing ID No. 14), 217, PPGMRPPP (Sequence Listing ID No. 114), 220, MRPPPPGI (Sequence Listing ID No. 115), 221, RPPPPGIR (amino acids 1-8 of Sequence Listing ID No. 13), 221, RPPPPGIRGPP (Sequence Listing ID No. 13), 223, PPPGIR (amino acids 3-8 of Sequence Listing ID No. 13), 222, PPPPGIRG (amino acids 2-9 of Sequence Listing ID No. 13), 223, PPPGIRGP (amino acids 3-10 of Sequence Listing ID No. 13), 224, PPGIRGPP (amino acids 4-11 of Sequence Listing ID No. 13), 228, RGPPPPGM (amino acids 1-8 of Sequence Listing ID No. 14), 228, RGPPPPGMRPPR (Sequence Listing ID No. 14), 229, GPPPPGMR (amino acids 2-9 of Sequence Listing ID No. 14), 230, PPRPGMRP (amino acids 3-10 of Sequence Listing ID No. 14), 231, PPPGMRPP (amino acids 4-11 of Sequence Listing ID No. 14), 231, PPPGMR Vamino acids 3-8 of Sequence Listing ID No. 10), and 232, PPGMRPRR (amino acids 5-12 of Sequence Listing ID No. 14).

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6. (amended) The epitope of claim 1 wherein the peptide is selected from the group consisting of 29, GTFKAFDK (Sequence Listing ID No. 1), 45, CDEFRKIKPKNAKQP (Sequence Listing ID No. 2), 94, RVPLAGAA (Sequence Listing ID No. 3), 101, AGGPGVGRAAGRGVRAG (Sequence Listing ID No. 4), 125, AGLAGPVRGVGGPSQ (Sequence Listing ID No. 5), 140, [QVMTPOGRGTVA] OVMTPOGRGTVA (Sequence Listing ID No. 6), 165, PTQYPPGRGTPPPPV (Sequence Listing ID No. 7), 174, TPPPPVGRATPPPGI (Sequence Listing ID No. 8), 184, PPRGIMAP (Sequence Listing ID No. 9), 189, MAPPPGMRPPM (Sequence Listing ID No. 10), 202, PIGLPPARGTPIGMPP (Sequence Listing ID No. 11), 212, PIGMPPPG (Sequence Listing ID No. 12), 221, RPPPPGIRGPP (Sequence Listing ID No. 13), [and] 228, RGPPPPGMRPPR (Sequence Listing ID No. 14), 30, TFKAFDKHM (Sequence Listing ID No. 15), 83, EGPPPKDT (Sequence Listing ID No. 16), 88, KDTGIARV, Sequence Listing ID No. 17), and 120, IPQAPAGLAG (Sequence Listing VD No. 18), or mixtures thereof.

autoimmune disorders comprising reacting a biological sample with an epitope selected from the group of peptides of less than forty amino acids, beginning with the amino acid numbered from the amino terminus followed by the listed amino acid sequence consisting of

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the La/SSB epitopes: 136, QVLNIQMRRTLHKAFKGS (Sequence Listing ID No. 19), 139, NIQMRRTLHKAFK (amino acids 4-16 of Seguence Listing ID No. 19), 144, RTLHKAFK (amino acids 9-16 of Sequence Listing ID No. 19), 17, ICHQIEYYFGDFNLPRDKFLK (Sequence <u>Listing ID No. 20)</u>, 24, YFGDFNLP (amino acids 8-15 of Sequence Listing ID No. 20), 46, WVPLEIMIKFNR (Sequence Listing ID No. 21), 47, VPLEÎMIK (amino acids 2-9 of Sequence Listing ID No. 21), 86, [KKTKIRRSPSKPL] KTKIRRSPSKPL (Sequence Listing ID No. <u>22)</u>, [89] <u>88</u>, KIRRSPSK (<u>amino acids 4-11 of Sequence Listing ID</u> No. 22), 56, NRLNRLTTDFNVIVE, (Sequence Listing ID No. 23), 56, NRLNRLTT (amino acids 1-8 of Sequence Listing ID No. 23), 257, GEIKWIDFVRGAK (Sequence Listing ID No. 24), 260, KWIDFVRGAK (amino acids 4-13 of Sequence Listing ID No. 24), 262, IDFVRGAK (amino acids 6-13 of Sequence Listing ID No. 24), 325, SLNKWKSKGRRFKGKGKGNK (Sequence Listing ID No. 25), 330, KSKGRRFK (amino acids 6-13 of Sequence Listing NO No. 25), 292, GNLQLRNKEVTW (Sequence Listing ID No. 26) 296, LRNKEVTW (amino acids 5-12 of Sequence Listing ID No. 26), 154, IFVVFDSIE (Sequence Listing ID No. 27), 155, FVVFDSIE (amino acids 2-9 of Sequence Listing ID No. 27), 176, KETDLLILFKDDYFA (Sequence Listing ID No. 28), 182, ILFKDDYF (amino acids 7-14\of Sequence Listing ID No. 28), 104, YKNDVKNRSVYIKGFPT (Sequence Listing ID No. 29), 112, SVYIKGFP (amino acids 9-16 of Sequence Listing ID No. 29), 63, TDFNVIVE (Sequence Listing ID No. 30), 64, DFNVIVEA

(amino acids 2-9 of Sequence Listing ID No. 30), 270, EGIILFKEKAK (Sequence Listing ID No. 31), 270, EGIILFKE (amino acids 1-8 of Sequence Listing ID No. 31), 354, KVQFQGKKTKFASD, (Sequence Listing ID No. 32), 360, KKTKFASD (amino acids 7-14 of Sequence Listing ID No. 32), 246, REDLHILF (Sequence Listing ID No. 33), 232, CLLKFSGD (Sequence Listing ID No. 34), 379, TGPVKRAR (Sequence Listing ID No. 35), 200, KVEAKLRAKQ (Sequence Listing ID No. 36), 202, EAKLRAKQ (amino acids 3-10 of Sequence Listing ID No. 36), ;

the Ro/SSA epitopes: 30, MNRLHRFL (Sequence
Listing ID No. 37), 37, LCFGSEGGT (Sequence Listing ID No. 38),
38, CFGSEGGT (amino acids 2-9 of Sequence Listing ID No. 38),
[44] 41, SEGGTYYIKEQ (Sequence Listing ID No. 39), [45] 42,
EGGTYYIKEQ (amino acids 2-11 of Sequence Listing ID No. 39), [47]
44, GTYYIKEQ (amino acids 4-11 of Sequence Listing ID No. 39),
[47] 44, GTYYI (amino acids 4-8 of Sequence Listing ID No. 39),
[74] 76, EIKSFSQEGRT (Sequence Listing ID No. 40), 78, KSFSQEGR
(amino acids 3-10 of Sequence Listing ID No. 40), 81, SQEGRTTKQ
(Sequence Listing ID No. 41), 84, GRTTKQEPM (Sequence Listing ID
No. 42), [105] 106, STKQAAFKAV (amino acids 2-11 of Sequence
Listing ID No. 43), [106] 105, ISTKQAAFKAVS (Sequence Listing ID
No. 43), [109] 108, KQAAFKAV (amino acids 4-11 of Sequence
Listing ID No. 43), 111, AFKAVSEVC (Sequence Listing ID No. 44),
126, FTFIQFKKDLKESMK (Sequence Listing ID No. 45), 130, QFKKDLKE

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(Sequence Listing ID No. 46), 139, MKCGMWGRA (amino acids 2-10 of Sèquence Listing ID No. 46), 142, GMWGRALRKAIA (Sequence Listing 47), 145, GRALRKAI (amino acids 4-11 of Sequence Listing ID No. (47), 165, [ALAVTKYKORNGWSHKDLLRLSH] ID No. ALAVTKYKORNGWSHKDLLRLSH (Sequence Listing ID No. 48), 169, [TKYKORNG] TKYKORNG (amino acids 5-12 of Sequence Listing ID No. 48), 173, [ORNGWSHK] ORNGWSHK (amino acids 9-16 of Sequence <u>Listing ID No. 48)</u>, 182, LLRLSHLKPSS (<u>Sequence Listing ID No.</u> 49), 184, RLSHLKPS \(\alpha\text{amino acids 3-10 of Sequence Listing ID No.}\) 49), [198] 199, TKYITKGW (amino acids 2-9 of Sequence Listing ID No. 71), [201] 202, ITKĠWKEV (amino acids 5-12 of Sequence Listing ID No. 71), 210, HELYKEKA (Sequence Listing ID No. 50), 212, LYKEKALSV (Sequence Listing ID No. 51), [215] 216, KALSVETEKLLKYL (Sequence Listing ID No. 52), [221] 222, TEKLLKYL (amino acids 7-14 of Sequence Listing ID No. 52), 224, KLLKYLEA (Sequence Listing ID No. 53), 229, LEAVEKVKRTKDE (Sequence Listing ID No. 54), 234, KVKRTKDE (amino acids 6-13 of Sequence Listing ID No. 54), 257, HLLTNHLKSKEVWKALLQEMPL (Sequence Listing ID No. 55), 263, LKSKEVWK (amino acids 7-14) of Sequence Listing ID No. 55), 264, KSKEVWKA (amino acids 8-15 of Sequence Listing ID No. 55), 265, SKEVWK (amino acids 9-14 of Sequence Listing ID No. 55), 280 ALLRNLGKMTA (Sequence Listing ID No. \(\) 66), 283, RNLGKMT (amino acids 4-10 of Sequence Listing ID No.\56), 285,

(amino acids 5-12 of Sequence Listing ID No. 45), 138, SMKCGMWGRA

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LISTING ID No. 57), 308, LCNEKLLKKARIHPFHI (Sèquence Listing ID No. 58), 313, LLKKARI (amino acids 6-12 of Sequence Listing ID No. 58), 315, KKARIHPF (amino acids 8-15 of Sequence Listing ID No. 58), 330, TYKTGHGLRGKLKWRPDE (Sequence Listing ID No. 59), 331, YKTGHGL (amino acids 2-8 of Sequence Listing ID No. 59), 352, ALDAAFYK (Sequence Listing ID No. 60), 355, AAFYKTFKTVEPTGKRFLLA (Sequence Listing ID No. 61), [362] 379, [ASMNORVLGS] ASMNORVLGS (Sequence Listing ID No. 62), 365, EPTGKRFL (amino acids 11-18 of Sequence Listing ID No. 61), 398, AMCMVVTR (Sequence Listing NO. 63), 414, AFSDEMVP (Sequence Listing ID No. 64), 420, VPCPVTTD (Sequence Listing ID No. 65), 433, VLMAMSQI (Sequence Listing NO No. 66), 445, TDCSLPMI (Sequence Listing ID No. 67), 449, LPMIWAQKTNTPA (amino acids 3-15 of Sequence Listing ID No. 68), [453] 472, TFAGGVHPAI (Sequence Listing ID No. 69), 472, [TFAGGVHPAI, 472,] TFAGGVHP (amino acids 1-8 of Sequence Listing ID No. 69), [482] 481, IALREYRKKMDIPAKL (Sequence Listing ID No. 70) \ 484, REYRKKMD (amino acids 4-11 of Sequence Listing ID No. 70) ;

the Sm B/B' epitopes: [20] 28, IGTFKAFD (Sequence Listing ID No. 103), [21] 29, GTFKAFDK (Sequence Listing ID No. 1), [22] 30, TFKAFDKH (amino acids 1-8 of Sequence Listing ID No. 15) 29, [GTFKAFDK] 30, TFKAFDKHM (Sequence Listing ID No. 15) 44, DCDEFRKI (Sequence Listing ID No. 104) 45, [CDEFAKIK] CDEFRKIK (amino acids 1-8 of Sequence Listing ID No. 2) 45,

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CDEFRKIKPKNAKOP (Sequence Listing ID No. 2), 46, [DEFRKJKP] DEFREIRP (amino acids 2-9 of Sequence Listing ID No. 2), 47, EFRKIKPR (amino acids 3-10 of Sequence Listing ID No. 2), [76] 48, [FRKJKPKN] FRKIKPKN (amino acids 4-11 of Sequence Listing ID No. 2), [77] 49, RKIKPKNA (amino acids 5-12 of Sequence Listing ID No. 2), [78] 50, KIKPKNAK (amino acids 6-13 of Sequence Listing ID No. 2), [79] 51, IKPKNAKQ (amino acids 7-14 of Sequence Listing ID No. 2), [80] 52, [KPKNAKOP] KPKNAKOP (amino acids 8-15 of Sequence Listing ID No. 2), [81] 53, PKNAKQPE (Sequence Listing ID No. 105), 83, EGPPPKDT (Sequence Listing ID No. 16), 88, KDTGIARV (Sequence Listing ID No. 17), 94, RVPLAGAA (Sequence Listing ID No. 3), 101\ AGGPGVGRAAGRGVPAG (Sequence Listing ID No. 4), 104, PGVGRAAG (amino acids 4-11 of Sequence Listing ID No. 4), 120, IPQAPAGLAG (Sequence Listing ID No. 18), 125, AGLAGPVRGVGGPSQ (Sequence Listing No. 5), 131, VRGVGGPS (amino acids 6-13 of Sequence Listing ID No. 5) 139, QQVMTPQG (Sequence Listing ID No. 107), 140, QVMTPQGR \(\lambda\) amino acids 1-6 of Sequence Listing ID No. 6), 141, [VMTPOGRG] VMTROGRG, amino acids 2-9 of (Sequence Listing ID No. 6), 144, [POGR] POGR (amino acids 5-8 of Sequence Listing ID No. 6), 142, [MTPQGBGT] MTPQGRGT (amino acids 3-11 of Sequence Listing ID No. 6), 143, TPQGRGTV, (amino acids 4-11 of Sequence Listing ID No. 6), 144, POGRGTVA (amino acids 5-12 of Sequence Listing ID No. 6) 145, QGRGTXAA (Sequence Listing ID No. 108) 164, APTQYPPG (Sequence Listing ID

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No. 109) 165, PTQYPPGR (amino acids 1-8 of Sequence Listing ID No. 7) 166, TQYPPGRG (amino acids 2-9 of Sequence Listing ID No. 7)\167, QYPPGRGT, amino acids 3-10 of (Sequence Listing ID No. 7) 168, YPPGRGTP (amino acids 4-11 of Sequence Listing ID No. 7) 169, PPORGTPP (amino acids 5-12 of Sequence Listing ID No. 7) 170, PGRGTAPP (amino acids 6-13 of Sequence Listing ID No. 7) 171, GRGTPPPP\(amino acids 7-14 of Sequence Listing ID No. 7) 172, RGTPPPPV (amino acids 8-15 of Sequence Listing ID No. 7) 173, GTPPPPVG (Sequence Listing ID No. 110) 174, TPPPPVGRATPPPGI (Sequence Listing ID No. 8), 175, PPPPVGRA (amino acids 2-9 of Sequence Listing ID No. 8), 184, PPPGIMAP (Sequence Listing ID No. 9), 188, IMAPPPGM (Sequence Listing ID No. 111), 189, MAPPPGMRPPM (Sequence Listing ID No. 10), 189, MAPPPGMR (amino acids 1-8 of Sequence Listing ID No. 10), 191, PPPGMR (amino acids 3-8 of Sequence Listing ID No. 13), 190, APPPGMRP (amino acids 2-9 of Sequence Listing ID No. 10), 191, PPPGMRPP (amino acids 3-10 of Sequence Listing ID No. 10), 192, PPGMRPPM (amino acids 4-11 of Sequence Listing ID No. 10) 202, PIGLPPARGTPIGMPP (Sequence Listing ID No. 11), 206, PPARGTPI, (amino acids 5-11 of Sequence Listing ID No. 11), 212, PIGMPPPG (Sequence Listing ID No. 12), 213, IGMPPPGM (Sequence Listing ID No. 12), 214, [GMPPPGMB] GMPPPGMR (Sequence Listing ID No. 113), [216, PPPGMB,] 215, MPPPGMRP (Sequence Listing ID No. 118), 216, PPPGMRPP (amino acids 4-11 of Sequence Listing ID No. 14), 217, PPGMRPPP

thereof.

No. 115), 221, RPPPPGIR (amino acids 1-8 of Sequence Listing ID No. 13), 221, RPPPPGIR (Sequence Listing ID No. 13), 221, RPPPPGIRGPP (Sequence Listing ID No. 13), 223, PPPGIR (amino acids 3-8 of Sequence Listing ID No. 13), 222, PPPPGIRG (amino acids 2-9 of Sequence Listing ID No. 13), 223, PPPGIRGP (amino acids 3-10 of Sequence Listing ID No. 13), 224, PPGIRGPP (amino acids 4-11 of Sequence Listing ID No. 13), 228, RGPPPPGM (amino acids 1-8 of Sequence Listing ID No. 14), 228, RGPPPPGMRPPR (Sequence Listing ID No. 14), 229, GPPPPGMRP (amino acids 2-9 of Sequence Listing ID No. 14), 230, PPPPGMRP (amino acids 3-10 of Sequence Listing ID No. 14), 231, PPPGMRPP (amino acids 4-11 of Sequence Listing ID No. 14), 231, PPPGMR (amino acids 3-8 of Sequence Listing ID No. 14), and 23%, PPGMRPPR (amino acids 5-12 of Sequence Listing ID No. 14) or mixtures

17. (amended) A method for treating patients for autoimmune disorders comprising administering to the patient an epitope selected from the group of peptides of less than forty amino acids, beginning with the amino acid numbered from the amino terminus followed by the listed amino acid sequence consisting of

the La/SSB epitopes: 136 QVLNIQMRRTLHKAFKGS (Sequence Listing ID No. 19), 139, NIQMRRTLHKAFK (amino acids 4-16 of Sequence Listing ID No. 19), 144, RTLHKAFK (amino acids 9-16 of

Sequence Listing ID No. 19), 17, ICHQIEYYFGDFNLPRDKFLK (Sequence Listing ID No. 20), 24, YFGDFNLP (amino acids 8-15 of Sequence Listing ID No. 20), 46, WVPLEIMIKFNR (Sequence Listing ID No. 21), 47 VPLEIMIK (amino acids 2-9 of Sequence Listing ID No. 21), 86, [KKTKIRRSPSKPL] KTKIRRSPSKPL (Sequence Listing ID No. 22), [89] 88 KIRRSPSK (amino acids 4-11 of Sequence Listing ID No. 22), 56, NRINRLTTDFNVIVE, (Sequence Listing ID No. 23), 56, NRLNRLTT (amino acids 1-8 of Sequence Listing ID No. 23), 257, GEIKWIDFVRGAK (Sequence Listing ID No. 24), 260, KWIDFVRGAK (amino acids 4-13 of Sequence Listing ID No. 24), 262, IDFVRGAK (amino acids 6-13 of Sequence Listing ID No. 24), 325, SLNKWKSKGRRFKGKGKGNK (Sequence Listing ID No. 25), 330, KSKGRRFK (amino acids 6-13 of Sequence Listing ID No. 25), 292, GNLQLRNKEVTW (Sequence Listing ID No. 26), 296, LRNKEVTW (amino acids 5-12 of Sequence Listing ID No. 26), 154, IFVVFDSIE (Sequence Listing ID No. 27), 155, FVVRDSIE (amino acids 2-9 of Sequence Listing ID No. 27), 176, KETDLL LIFKDDYFA (Sequence Listing ID No. 28), 182, ILFKDDYF (amino adids 7-14 of Sequence Listing ID No. 28), 104, YKNDVKNRSVYIKGFPT (Sequence Listing ID No. 29), 112, SVYIKGFP (amino acids 9-16 of Sequence Listing ID No. 29), 63, TDFNVIVE (Sequence Listing ID No. 30), 64, DFNVIVEA (amino acids 2-9 of Sequence Listing ID No. 30), 270, EGIILFKEKAK (Sequence Listing ID No. 31), 270, EGIILFKE (amino acids 1-8 of Sequence Listing ID No. 31), 354, KVQFQGKKTKFASD, (Sequence

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the Ro/SSA epitopes: 30, MNRLHRFL (Sequence Listing ID No. 3λ), 37, LCFGSEGGT (Sequence Listing ID No. 38), 38, CFGSEGGT (amino acids 2-9 of Sequence Listing ID No. 38), [44] 41, SEGGTYYIKEQ (Sequence Listing ID No. 39), [45] 42, EGGTYYIKEQ (amino acids 2-11 of Sequence Listing ID No. 39), [47] 44, GTYYIKEQ (amino acids 4-11 of Sequence Listing ID No. 39), [47] 44, GTYYI (amino acids 4\8 of Sequence Listing ID No. 39), [74] 76, EIKSFSQEGRT (Sequence Listing ID No. 40), 78, KSFSQEGR (amino acids 3-10 of Sequence Listing ID No. 40), 81, SQEGRTTKQ (Sequence Listing ID No. 41), 84, GRTTKQEPM (Sequence Listing ID No. 42), [105] 106, STKQAAFKAV (amino acids 2-11 of Sequence <u>Listing ID No. 43)</u>, [106] <u>105</u>, ISTKQAAFKAXS (<u>Sequence Listing ID</u> No. 43), [109] 108, KQAAFKAV (amino acids 4-11 of Sequence Listing ID No. 43), 111, AFKAVSEVC (Sequence Listing ID No. 44), 126, FTFIQFKKDLKESMK (Sequence Listing ID No. 45) 130, QFKKDLKE (amino acids 5-12 of Sequence Listing ID No. 45), 138, SMKCGMWGRA (Sequence Listing ID No. 46), 139, MKCGMWGRA (amino ackds 2-10 of Sequence Listing ID No. 46), 142, GMWGRALRKAIA (Sequence Listing

No. 47), 145, GRALRKAI (amino acids 4-11 of Sequence Listing ID No. 47), 165, [ALAVTKYKORNGWSHKDLLRLSH]

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<u> ALAVYKYKORNGWSHKDLLRLSH (Sequence Listing ID No. 48)</u>, 169, [TKYKORNG] TKYKORNG (amino acids 5-12 of Sequence Listing ID No. 48), 173, [ORNGWSHK] ORNGWSHK (amino acids 9-16 of Sequence Listing ID No. 48), 182, LLRLSHLKPSS (Sequence Listing ID No. 49), 184, RLSHLKPS (amino acids 3-10 of Sequence Listing ID No. 49), [198] 199, TKYITKGW (amino acids 2-9 of Sequence Listing ID No. 71), [201] 202, ITKGWKEV (amino acids 5-12 of Sequence <u>Listing ID No. 71)</u>, 210, HELYKEKA (Sequence Listing ID No. 50), 212, LYKEKALSV (Sequence Listing ID No. 51), [215] 216, KALSVETEKLLKYL (Sequence Listing ID No. 52), [221] 222, TEKLLKYL (amino acids 7-14 of Sequence Listing ID No. 52), 224, KLLKYLEA (Sequence Listing ID No. 53), 229, LEAVEKVKRTKDE (Sequence <u>Listing ID No. 54)</u>, 234, KVKRTKDE (amino acids 6-13 of Sequence Listing ID No. 54), 257, HLLTNHLKSKEVWKALLQEMPL (Sequence Listing ID No. 55), 263, LKSKEVWK (amino acids %-14 of Sequence Listing ID No. 55), 264, KSKEVWKA (amino acids 8-15 of Sequence Listing ID No. 55), 265, SKEVWK (amino acids 9-14 of Sequence Listing ID No. 55), 280 ALLRNLGKMTA (Sequence Listing ID No. 56), 283, RNLGKMT (amino acids 4-10 of Sequence Listing ID No. 56), 285, LGKMTANS (Sequence Listing ID No. 57), 308, LCNEKLLKKARIHPFHI (Sequence Listing ID No. 58), 313, LLKKARI (amino acids 6-12 of Sequence Listing ID No. 58), 315, KKARIHPF (amino acids 8-15 of

CEX SPV Bequence Listing ID No. 58), 330, TYKTGHGLRGKLKWRPDE (Sequence Listing ID No. 59), 331, YKTGHGL (amino acids 2-8 of Sequence Listing ID No. 59), 352, ALDAAFYK (Sequence Listing ID No. 60), 355, AAFYKTFKTVEPTGKRFLLA (Sequence Listing ID No. 61), [362] 379, [ASMNORVLGS] ASMNORVLGS (Sequence Listing ID No. 62), 365, EPTGKRFL (amino acids 11-18 of Sequence Listing ID No. 61), 398, AMCMVVTR (Sequence Listing ID No. 63), 414, AFSDEMVP (Sequence Listing ID No. 64), 420, VPCPVTTD (Sequence Listing ID No. 65), 433, VLMAMSQI (Sequence Listing ID No. 66), 445, TDCSLPMI (Sequence Listing ID No. 67), 449, LPMIWAQKTNTPA (amino acids 3-15 of Sequence Listing ID No. 68), [453] 472, TFAGGVHPAI (Sequence Listing ID No. 69), 472, [TFAGGVHPAI, 472,] TFAGGVHP (amino acids 1-8 of Sequence Listing ID No. 69), [482] 481, IALREYRKKMDIPAKL (Sequence Listing ID No. 70), 484, REYRKKMD (amino acids 4-11 of Sequence Listing ID No. 70), ;

the Sm B/B' epitopes: [20] 28, IGTFKAFD (Sequence
Listing ID No. 103), [21] 29, GTFKAFDK (Sequence Listing ID No.

1), [22] 30, TFKAFDKH (amino acids 1-8 of Sequence Listing ID No.

15) 29, [GTFKAFDK] 30, TFKAFDKHM (Sequence Listing ID No. 15) 44,

DCDEFRKI (Sequence Listing ID No. 104) 45, [CDEFAKIK] CDEFRKIK

(amino acids 1-8 of Sequence Listing ID No. 2) 45,

CDEFRKIKPKNAKQP (Sequence Listing ID No. 2), 46, [DEFRKJKP]

DEFRKIKP (amino acids 2-9 of Sequence Listing ID No. 2), 47,

EFRKIKPK (amino acids 3-10 of Sequence Listing ID No. 2), [76]

48, [FRKJKPKN] FRKIKPKN (amino acids 4-11 of Sequence Listing ID 2), [77] 49, RKIKPKNA (amino acids 5-12 of Sequence Listing ID No. 2), [78] 50, KIKPKNAK (amino acids 6-13 of Sequence Listing ID No. 2), [79] 51, IKPKNAKQ (amino acids 7-14 of Sequence Aisting ID No. 2), [80] 52, [KPKNAKOP] KPKNAKOP (amino acids 8-15 of Sequence Listing ID No. 2), [81] 53, PKNAKQPE (Sequence Listing ID No. 105), 83, EGPPPKDT (Sequence Listing ID No. 16), 88, KDTGIARV (Sequence Listing ID No. 17), 94, RVPLAGAA (Sequence Listing \ID No. 3), 101, AGGPGVGRAAGRGVPAG (Sequence Listing ID No. 4), 104, PGVGRAAG (amino acids 4-11 of Sequence Listing ID No. 4), 120, IPQAPAGLAG (Sequence Listing ID No. 18), 125, AGLAGPVRGVGGPSQ (Sequence Listing ID No. 5), 131, VRGVGGPS (amino acids 6-13 of Sequence Listing ID No. 5) 139, QQVMTPQG (Sequence Listing ID No. 107), 140, QVMTPQGR (amino acids 1-6 of Sequence Listing ID No. 6), 141, [VMTPOGRG] VMTPOGRG, amino acids 2-9 of (Sequence Listing ID No. 6), 144, [POGR] POGR (amino acids 5-8 of Sequence Listing ID No. 6), 142, [MTPQGBGT] MTPQGRGT (amino acids 3-11 of Sequence Listing ID No. 6), 143, TPQGRGTV, (amino acids 4-11 of Sequence Listing ID No. 6), 144, PQGRGTVA (amino acids 5-12 of Sequence Listing ID\No. 6) 145, QGRGTVAA (Sequence Listing ID No. 108) 164, APTQYPP& (Sequence Listing ID No. 109) 165, PTQYPPGR (amino acids 1-8 of Sequence Listing ID No. 7) 166, TOYPPGRG (amino acids 2-9 of Sequence Listing ID No. 7) 167, QYPPGRGT, amino acids 3-10 of (Sequence Listing ID No. 7)



168, YPPGRGTP (amino acids 4-11 of Sequence Listing ID No. 7) 169, PPGRGTPP (amino acids 5-12 of Sequence Listing ID No. 7) 170, PGRGTPPP (amino acids 6-13 of Sequence Listing ID No. 7) 171, GRGTPPPP (amino acids 7-14 of Sequence Listing ID No. 7) 172, RGTPPPV (amino acids 8-15 of Sequence Listing ID No. 7) 173, GTPPPAVG (Sequence Listing ID No. 110) 174, TPPPPVGRATPPPGI (Sequence Listing ID No. 8), 175, PPPPVGRA (amino acids 2-9 of Sequence Listing ID No. 8), 184, PPPGIMAP (Sequence Listing ID No. 9), 188, IMAPRPGM (Sequence Listing ID No. 111), 189, MAPPPGMRPPM (Sequence Listing ID No. 10), 189, MAPPPGMR (amino acids 1-8 of Sequence Listing ID No. 10), 191, PPPGMR (amino acids 3-8 of Sequence Listing ID No. 13), 190, APPPGMRP (amino acids 2-9 of Sequence Listing ID No. 10), 191, PPPGMRPP (amino acids 3-10 of Sequence Listing ID No. 10), 192, PPGMRPPM (amino acids 4-11 of Sequence Listing No. 10), 202, PIGLPPARGTPIGMPP (Sequence Listing ID No. 11), 206, PPARGTPI, (amino acids 5-11 of Sequence Listing ID No. 11), 212, PIGMPPPG (Sequence Listing ID No. 12), 213, IGMPPPGM (Sequence Listing ID No. 12), 214, [GMPPPGMB] GMPPPGMR (Sequence Listing ID No. 113), [216, PPPGMB,] 215, MPPPGMRP (Sequence Listing ID No. 118) 216, PPPGMRPP (amino acids 4-11 of Sequence Listing ID No. 14), 21%, PPGMRPPP (Sequence Listing ID No. 114), 220, MRPPPPGI (Sequence Listing ID No. 115), 221, RPPPPGIR (amino acids 1-8 of Sequence Listing ID No. 13), 221, RPPPPGIRGPP (Sequence Listing ID No. 13), 223,